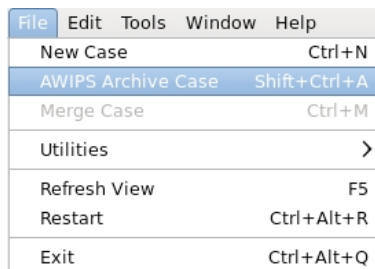


WES-2 Bridge Familiarization Exercise

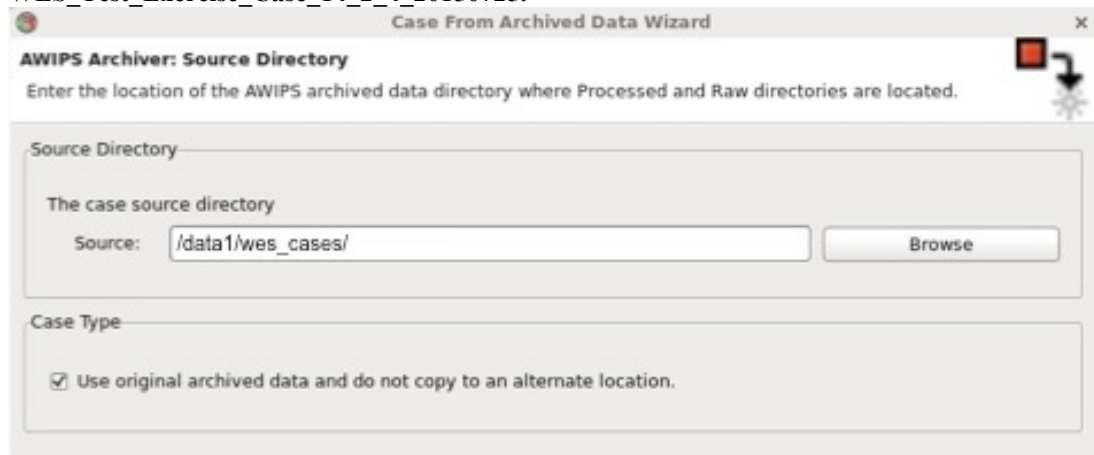
Task 1: Upload a small archived data case for event review (no simulation) and familiarize with simulation controls.

1. Right click on the desktop and select **Open in Terminal** to launch a shell window issue the following commands to list out the contents of an archived data case before the metadata is added:
 - a. **cd /data/wes_cases** (note you can hit the tab key after starting to type out the paths and it will sometimes finish the command for you)
 - b. **ls WES_Test_Exercise_Case_14_2_4_20150725**
 - c. **ls WES_Test_Exercise_Case_14_2_4_20150725/Processed**
 - i. Note only some radar, satellite, warning, obs, grid, and ffrmp data.
2. To start WES-2 Bridge, open a new shell window, **cd /w2b/wes** and type **./wes.sh** and hit **Enter**.
3. Under the **File** menu select **AWIPS Archive Case**,



and in the wizard first page:

- a. Click on **Browse** button and navigate to **/data1/wes_cases/** where you will select **WES_Test_Exercise_Case_14_2_4_20150725**.



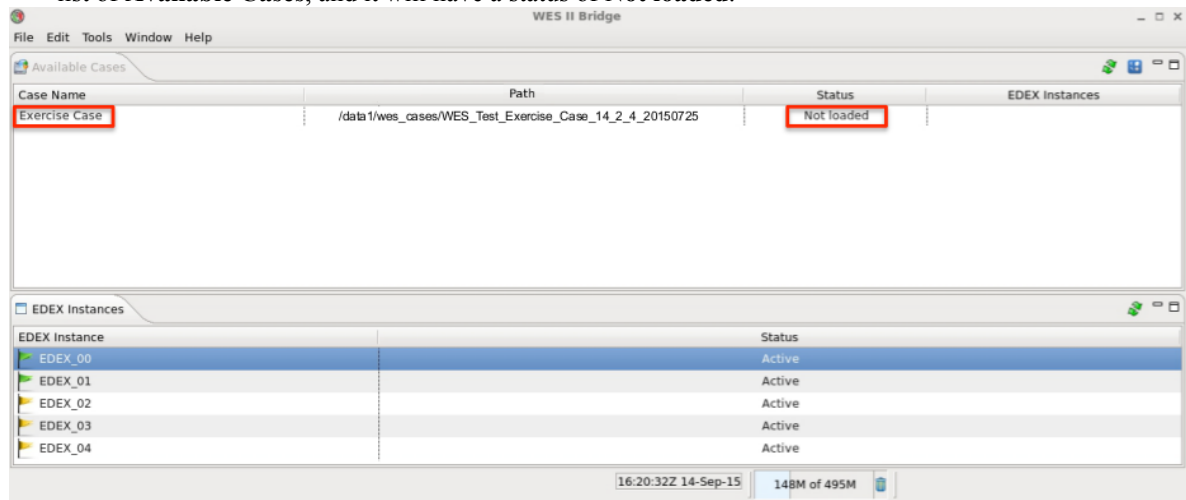
- b. Check the “Use original archived data and do not copy to an alternate location” checkbox to leave the WES_Test_Exercise_Case_14_2_4_20150725 in its current location
4. Click the **Next** button.

5. In the wizard second page enter the following:
 - a. **Case Name: Exercise Case**
 - b. **AWIPS II Version: 14.2.4** (this is used for tracking build dependencies)
 - c. **Case Description: archiver filtered case with radar, satellite, obs, warnings and FFMP data** (this is useful documentation for later use)

6. Click **Next** button.
7. Under **WFOs** box, click on **Deselect All** button, and then select **OUN**.
 - a. note if you had a lot of data you may choose to filter the data Loaded in WES by using the **Data Types** box.
8. Click the **Next** button.
9. On the wizard third page enter the following:
 - a. Note you may want to use the Set Date button to select the time from the calendar to insure you don't make a typo. Also note you can hold down the arrows on the spinboxes to rapidly index to a number.
 - b. **Start Date: 2013-06-01 00:00**
 - c. **End Date: 2013-06-01 04:00**

10. Click the **Finish** button to create the case metadata.

- a. When WES is done creating metadata for the case, you will see **Exercise Case** listed in the **Case Name** list of **Available Cases**, and it will have a status of **Not loaded**.



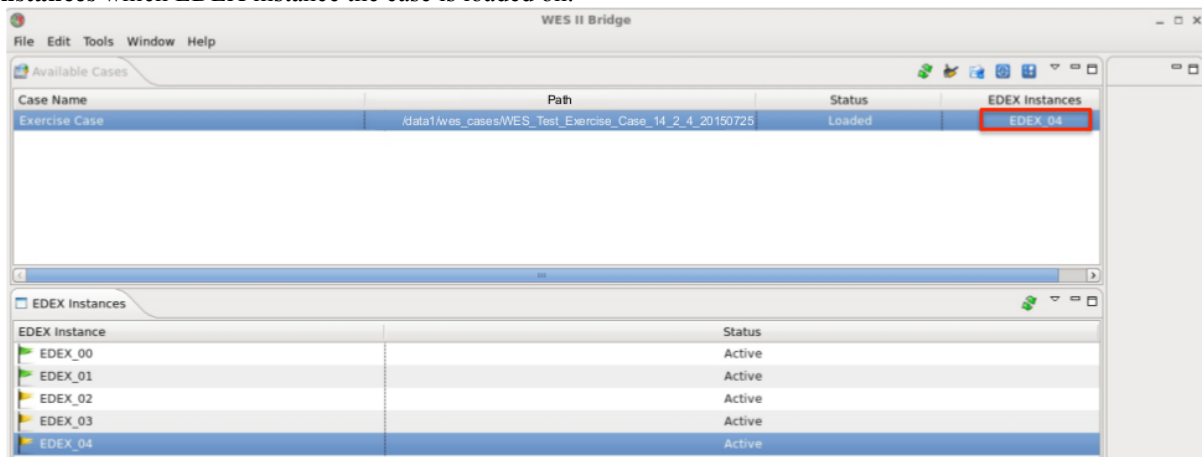
11. In the shell window with the `WES_Test_Exercise_Case_14_2_4_20150725` issue the following commands to list out the contents of the case after the metadata is added:

- a. `ls WES_Test_Exercise_Case_14_2_4_20150725`
 - i. note the `caseMetaData.xml` and the `localizations` folder
- b. `ls WES_Test_Exercise_Case_14_2_4_20150725/localizations`
 - i. Note the localization utility tree and maps have been copied into the case from the AWIPS-2 installed on WES-2 Bridge.

12. Select the **Workshop Case**, right click on the row, and select **Load Case**.

- a. In the **Load Case** tab, review the metadata, and then click **Load** to load the records into the database.
 - i. This will take a minute or two, and the Progress Information bar will disappear when the data is loaded into an available EDEX instance.
 - ii. If there are no available EDEX instances, you will be prompted to unload an EDEX instance before being able to proceed.

13. Drag the vertical bar to the right, so you can see the Status of **Workshop Case** is **Loaded** and under **EDEX Instances** which EDEX instance the case is loaded on.



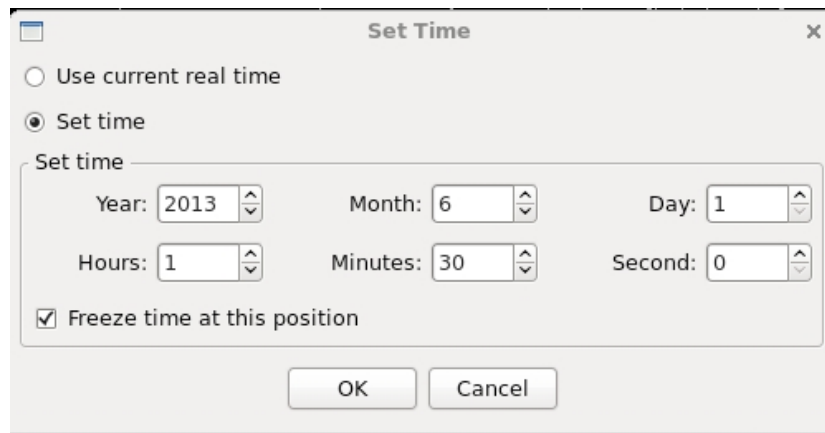
- a. When a case is Loaded, it can be quickly accessed for event review or simulation.

14. Right click on **Workshop Case**, and select **Review**.

15. In the Review Wizard, click **Finish**.

- a. Click **OK** if the **Low Available Memory for Application** window appears.
- b. CAVE will load with all the data visible, and after 1 minute will set the D2D clock to the end of the case for reference.
 - i. The D2D clock is not frozen and is moving forward past the end of the case, but has no impact.

16. Under the **ktlx** menu select **All tilts base data**, increase **frame count** to **64**, and navigate through the data.
 - a. Note this is static case review (no simulation), so the data doesn't update automatically.
17. **Swap panes with an empty pane**, and under the **Obs** menu select **Local CWA Warnings** and navigate through the data.
18. **Swap panes with an empty pane**, and under the **Satellite** menu select **4 panel (GOES M-Q)** and navigate through the data.
19. Under the **Upper Air** menu, select **Oklahoma City, OK** and notice no data will load because this data type was not included in the archive case.
20. **Click on the D2D clock** and enter **2013-6-1** for the date and **1-30-00** for the time and select **Freeze time at this position**.

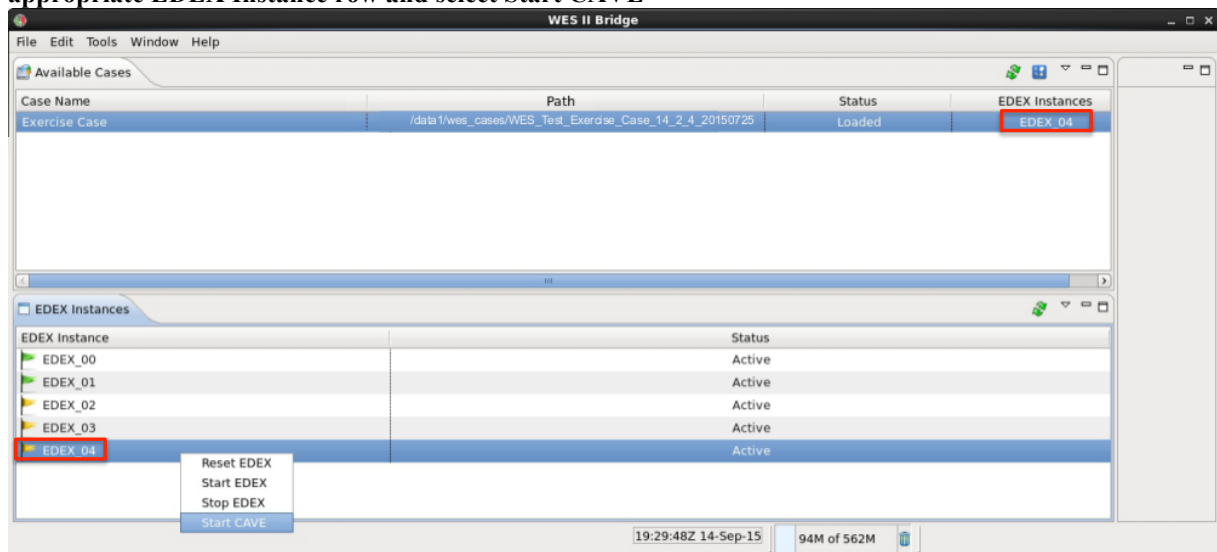


The 'Set Time' dialog box has a title bar with a close button. It contains two radio buttons: 'Use current real time' (unselected) and 'Set time' (selected). Below the radio buttons is a 'Set time' section with six spin boxes: Year (2013), Month (6), Day (1), Hours (1), Minutes (30), and Seconds (0). A checkbox labeled 'Freeze time at this position' is checked. At the bottom are 'OK' and 'Cancel' buttons.

- a. Your CAVE clock should have yellow text with a black background when the time is frozen:

Time: **01:30Z 01-Jun-13**

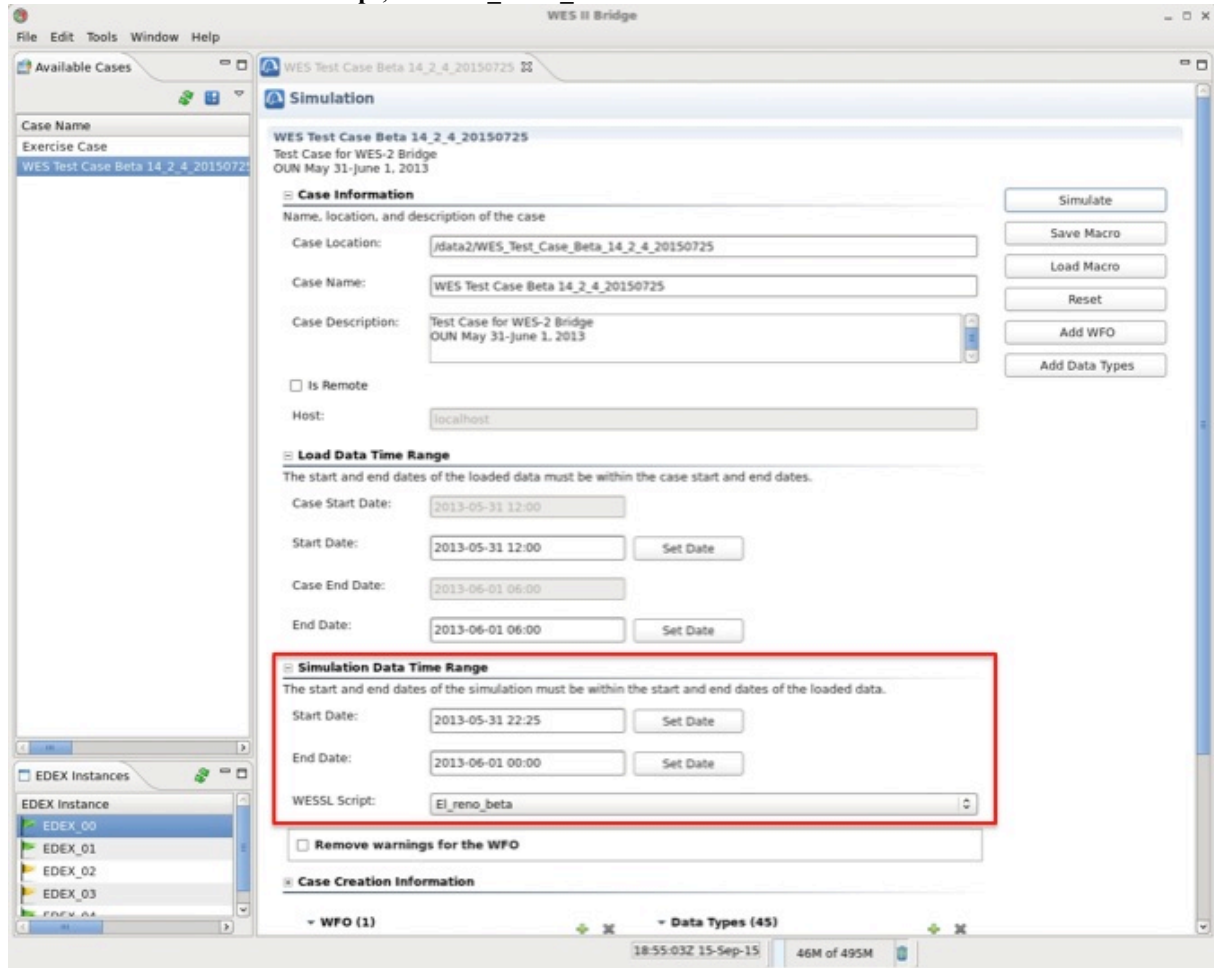
21. To launch another CAVE on this case, **identify the EDEX Instance** in the **Case Name** list of available cases (i.e. EDEX_04), and then in the **EDEX Instances** on the bottom left of the WES II Bridge, **right click on the appropriate EDEX Instance row and select Start CAVE**



- a. Click **OK** on the available memory popup window if it pops up, and when CAVE launches, **move the new CAVE to a new monitor**.
- b. Note: You have to manually set the CAVE clock when using Start CAVE.
22. Load and view data on the new CAVE and verify it is the same data.
23. Shut down CAVE and the Text Workstation.

Task 2: Run a Simulation on a Case Not Loaded, the WES_Test_Case_Beta_14_2_4_20150725

1. Select the **WES_Test_Case_Beta_14_2_4_20150725** case in the Case Name tab, and **right click** and select **Simulation**.
2. In the **Simulation tab** (may need to move the vertical slider bar to see) enter the following:
 - a. **Simulation Data Time Range**
 - i. **Start Date: 2013-05-31 22:25**
 - ii. **End Date: 2013-06-01 00:00**
 - b. Under the **WESSL Script**, select **El_Reno_beta**.



3. In the **upper-right part of the simulation tab** (may need to use scroll bars), click on the **Simulate** button.
 - a. The case will first be Loaded into an available EDEX which will take a minute or two.
 - b. If no EDEX instance is available you will need to unload a case by right clicking on a case name and selecting Unload.
4. Click **OK** on the available memory popup window if it pops up, and note when the WESSL2 window and Simulation Controls window pops up.
5. Click the **PLAY** button on the **Simulation Controls** window.
6. WESSL2 will pop up a new report every few minutes, and you can click on each one of the WESSL Events manually if you want to review them.
 - a. during the simulation you will receive text, image, and video popups relaying information from various sources on this day.
7. From the **ktlx** menu, select **0.5 Z+SRM8** and review the recent radar data.
8. Under the **CAVE** menu and **New** submenu select **Text Workstation**, and then **issue a tornado warning** with WarnGen (don't spend much time doing it, just for demonstration purposes), making sure to **select a basis for the warning** (radar detected, spotter, etc.) **and/or hail threat**.
9. In a **new pane**, load the **Local CWA Warnings** plot from the **Obs** menu, and see your new warning.
10. The simulation will stop at 00:00:00.

- a. After the simulation has stopped, shut down CAVE and WESSL.

Task 3: Build a WESSL Script, and Play it in a Simulation

1. **Right-click** on **WES_Test_Case_Beta_14_2_4_20150725** and select **Launch Script Builder**.
2. **Click on the folder icon**, click the **New** button, and select a new name: **demo2**
3. **Double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-25** and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Text**.
 - b. **Click in the box** and type “Begin Simulation”, and click **OK**.
 - c. **Click on the Play** button to preview the event text popup.
4. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-25** with the **15 Second checkbox** selected and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Image**.
 - b. **Click on the Browse** button and **navigate to** **/data1/wes_cases/WES_Test_Case_Beta_14_2_4_20150725/wessl2/resources**.
 - c. Select **20130601_00_summary.png**, and click the **Open** button.
 - d. **Click on the backward then forward Play** buttons in the **Event Previewer** window already open, and the image will display.
5. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-28** with the **15 Second checkbox** selected and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Video**.
 - b. **Click on the Browse** button and **navigate to** **/data1/wes_cases/WES_Test_Case_Beta_14_2_4_20150725/wessl2/resources**.
 - c. Select **Sequence_01.mov**, and click the **Open** button.
 - d. **Click on the backward then forward Play** buttons in the **Event Previewer** window already open, and the video will play.
6. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-35** with the **30 Second** selected and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Map/Observation Event**.
 - b. Type in **35.47** for **Latitude** and **-98.35** for **Longitude** and “**Golf ball hail in Hinton, OK**”, in the **Report Text** and click **OK**.
 - c. **Click on the backward then forward Play** buttons in the **Event Previewer** to preview the event text popup.
7. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-40** with the **45 Second** selected and click **OK**.
 - a. **Right-click** on the box with a **green checkmark**, and select **Pause** (will pause the simulation with this event).
 - b. **Right-click** in the **Command** box, and select **Presentation**.
 - i. **Presentation** launches the Firefox browser on the file you specify. Useful for incorporating content such as Flash modules.
 - c. **Left-click** on the **Browse** button, and **navigate to** **/data1/wes_cases/WES_Test_Case_Beta_14_2_4_20150725/wessl2/resources**, select **Warning_LSR_Loop.html**, and click **Open** and **OK**.
 - d. **Click on the backward then forward Play** buttons in the **Event Previewer** to preview the debrief.
8. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-40** with the **45 Second** selected (same time as in previous step) and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Text**.
 - b. **Enter in some text** saying the simulation has been paused and to click on the **PLAY** button to resume and click **OK**.
 - c. **Click on the backward then forward Play** buttons in the **Event Previewer** to preview the event text popup.
9. **Click on the + sign** to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-41** with the **00 Second** selected and click **OK**.
 - a. **Right-click** in the **Command** box, and select **Presentation**.
 - b. **Left-click** on the **Browse** button, and **navigate to** **/data1/wes_cases/WES_Test_Case_Beta_14_2_4_20150725/wessl2/resources**, select **engage.html**, and click **Open** and **OK**.
 - c. **Click on the backward then forward Play** buttons in the **Event Previewer** to

preview the debrief module.

10. Close the **WES II Script Builder** and **Event Previewer** windows and click **Yes**.
11. Select the **WES_Test_Case_Beta_14_2_4_20150725** case in the Case Name tab, and **right click** and select **Quick Simulation** since you now have the case Loaded.
12. In the **Simulation** tab **Simulation Data Time Range** enter **2013-05-31 22:25** for the **Start Date** and **2013-05-31 00:00** for the **End Date**.
13. Under the **WESSL Script**, select **demo2**, and click the Finish button.
14. Click **OK** on the available memory popup window, and note when the WESSL2 window and Simulation Controls window pops up.
15. Click the **PLAY** button on the **Simulation Controls** window.
16. WESSL2 will pop up your events as you created them.